

1

00:00:00,000 --> 00:00:04,840

On this episode of MythBusters...

2

00:00:04,840 --> 00:00:07,240

I'm gonna teach you a lesson!

3

00:00:07,240 --> 00:00:12,880

Buster takes the hot seat in the Mojave Desert for the myth of the Ming dynasty astronaut.

4

00:00:12,880 --> 00:00:18,400

Oh, this is gonna be a good day!

5

00:00:18,400 --> 00:00:24,760

Adam and Jamie play mad scientist in the quest for free energy.

6

00:00:24,760 --> 00:00:26,480

There ought to be a law against that.

7

00:00:26,480 --> 00:00:31,520

And will Adam's stunt double lose its head at the hands of the killer fan?

8

00:00:31,520 --> 00:00:34,520

Oh, that is horrifying!

9

00:00:34,520 --> 00:00:36,520

Who are the MythBusters?

10

00:00:36,520 --> 00:00:39,520

Am I missing an eyebrow?

11

00:00:39,520 --> 00:00:40,880

Adam Savage.

12

00:00:40,880 --> 00:00:43,680

I reject the reality and substitute my own.

13

00:00:43,680 --> 00:00:45,280

And Jamie Heineman.

14

00:00:45,280 --> 00:00:46,280

Quack, damn you!

15

00:00:46,280 --> 00:00:49,080

I wouldn't say Jamie's an evil genius.

16

00:00:49,080 --> 00:00:53,160

Between them, more than 30 years special effects experience.

17

00:00:53,160 --> 00:00:54,920

When will the fun ever stop?

18

00:00:54,920 --> 00:01:01,920

They don't just tell the myths, they put them to the test.

19

00:01:01,920 --> 00:01:15,400

Adam, Christine, it's so hot out here.

20

00:01:15,400 --> 00:01:16,400

What are we doing here?

21

00:01:16,400 --> 00:01:20,200

Well, we had to come to the middle of nowhere to be able to test the myth of the Ming dynasty

22

00:01:20,200 --> 00:01:21,640

astronaut.

23

00:01:21,640 --> 00:01:27,320

The story goes that a 15th century Chinese astrologer decided to see if he could launch

24

00:01:27,320 --> 00:01:29,120

himself into space.

25

00:01:29,120 --> 00:01:35,120

So he strapped 47 rockets around the base of his throne and had 47 people light 47

26

00:01:35,120 --> 00:01:36,760

fuses all at once.

27

00:01:36,760 --> 00:01:41,200

And when they did, apparently he went up in a puff of smoke.

28

00:01:41,200 --> 00:01:43,360

They claimed that he got into space.

29

00:01:43,360 --> 00:01:45,720

We're here to see if he did.

30

00:01:45,720 --> 00:01:51,600

According to legend, Ming dynasty astrologer Wan Hu used newly invented gunpowder rockets

31

00:01:52,320 --> 00:01:58,360

in an attempt to become the world's first astronaut in around 1500 AD.

32

00:01:58,360 --> 00:02:04,120

Adam and Jamie hit the trail of this ancient myth at bamboo sorcery, a little piece of

33

00:02:04,120 --> 00:02:06,440

the Orient in the heart of California.

34

00:02:06,440 --> 00:02:12,080

Jamie, does this remind you when you were fighting in the foreign legion in Dien Bien

35

00:02:12,080 --> 00:02:13,080

Foo?

36

00:02:13,080 --> 00:02:19,560

In China, this giant sized grass grows wild and has long been harvested for making furniture,

37

00:02:19,600 --> 00:02:22,680

buildings and rockets.

38

00:02:22,680 --> 00:02:26,640

They're looking for bamboo with an internal diameter of one and a half inches.

39

00:02:26,640 --> 00:02:29,480

Yes, I mean that's like one and three quarter inches.

40

00:02:29,480 --> 00:02:32,360

That's, I mean, it's a quarter inch over on the inside.

41

00:02:32,360 --> 00:02:33,360

Let's get it.

42

00:02:33,360 --> 00:02:39,640

They need enough for 47 rockets, each one a foot in length and stuffed with gunpowder,

43

00:02:39,640 --> 00:02:42,280

which is Adam's idea of heaven.

44

00:02:42,280 --> 00:02:43,680

No, I'm totally psyched.

45

00:02:43,680 --> 00:02:47,200

I can't wait to see how this thing goes.

46

00:02:47,240 --> 00:02:52,280

This myth is shaping up to be another one of those kid candy store kind of deals.

47

00:02:52,280 --> 00:02:59,280

This is perhaps the least safe cabinet in the shop and of course the most fun.

48

00:02:59,280 --> 00:03:02,840

The fire cabinet.

49

00:03:02,840 --> 00:03:08,440

Using an ancient Chinese recipe, they cook up some experimental gunpowder.

50

00:03:08,440 --> 00:03:13,680

The traditional ingredients are combined with roofing tar, which acts as a binder.

51

00:03:13,680 --> 00:03:14,680

What could be better?

52

00:03:14,680 --> 00:03:16,160

I'm making my own fireworks.

53

00:03:16,160 --> 00:03:20,640

No matter how much fun I'm having under no circumstances, should you try this at home?

54

00:03:20,640 --> 00:03:25,760

With this amount of gunpowder, the heat generated inside this is going to be considerable.

55

00:03:25,760 --> 00:03:31,720

So I'm actually wrapping it in twine, kind of add to its structural integrity.

56

00:03:31,720 --> 00:03:34,840

This is actually how the Chinese did their rockets.

57

00:03:34,840 --> 00:03:35,840

So I'm going to do the same.

58

00:03:35,840 --> 00:03:39,720

When the rocket is ready, it's outside for a test firing.

59

00:03:39,720 --> 00:03:42,320

A force gauge will measure the amount of thrust.

60

00:03:42,320 --> 00:03:46,720

If you are successful with this, you're supposed to get like, what, about 50 pounds of thrust

61

00:03:46,720 --> 00:03:47,720

out of it?

62

00:03:47,720 --> 00:03:52,240

Well, if I achieve the exact formulation of a modern rocket, yes.

63

00:03:52,240 --> 00:03:55,440

If Adam's right, these should be some fireworks.

64

00:03:55,440 --> 00:03:58,600

Guys, remember, we can't let our guard down on this.

65

00:03:58,600 --> 00:03:59,600

I understand.

66

00:03:59,600 --> 00:04:00,600

This becomes a bomb.

67

00:04:00,600 --> 00:04:02,440

Okay, I'm going to go down and watch traffic.

68

00:04:02,440 --> 00:04:04,120

I don't need to be right here.

69

00:04:04,120 --> 00:04:07,000

So let's all just step back a little from this one.

70

00:04:07,000 --> 00:04:09,400

Maybe, I don't know, maybe like here.

71

00:04:09,400 --> 00:04:11,400

Yeah, go ahead.

72

00:04:11,400 --> 00:04:16,200

One, three, two, one.

73

00:04:16,200 --> 00:04:18,480

Blast off is a let down.

74

00:04:18,480 --> 00:04:21,800

The rocket has barely half a pound of thrust.

75

00:04:21,800 --> 00:04:25,000

Not enough to lift itself off the ground, let alone a payload.

76

00:04:25,000 --> 00:04:28,160

We got like an 80 second burn time here.

77

00:04:28,160 --> 00:04:29,160

0.56.

78

00:04:29,160 --> 00:04:30,160

Too slow.

79

00:04:30,160 --> 00:04:35,720

Jamie, I think we proved conclusively that the Chinese had Roman candles.

80

00:04:35,720 --> 00:04:37,600

Takeoff is canceled.

81

00:04:37,600 --> 00:04:42,120

Roman goes back to his mixing bowl to see if he can spice things up a little.

82

00:04:42,120 --> 00:04:43,120

There we go.

83

00:04:43,120 --> 00:04:48,880

I'm trying to come up with a more energetic mixture of gunpowder to make a good yeoldie

84

00:04:48,880 --> 00:04:49,880

Chinese rocket.

85

00:04:49,880 --> 00:04:53,360

There's no change in the ingredients with these mixtures.

86

00:04:53,360 --> 00:04:59,760

It's only the ratios of the ingredients, the salt, Peter, the charcoal, and the sulfur.

87

00:04:59,760 --> 00:05:01,320

I'm having too much fun.

88

00:05:01,320 --> 00:05:05,280

Adam selects his most potent mixtures and heads back to the test pad.

89

00:05:05,440 --> 00:05:10,240

In this line of questioning, the only way to know without being educated is just to

90

00:05:10,240 --> 00:05:12,520

keep on trying different formulations.

91

00:05:12,520 --> 00:05:15,680

And at a certain point we have to stop and just blow shit up.

92

00:05:15,680 --> 00:05:18,040

Three, two, one.

93

00:05:18,040 --> 00:05:19,960

Kind of a boom there.

94

00:05:19,960 --> 00:05:22,800

It just blew the plug out, I think.

95

00:05:22,800 --> 00:05:24,840

I guess it was a little too aggressive.

96

00:05:24,840 --> 00:05:26,840

Apparently.

97

00:05:26,840 --> 00:05:31,840

0.29 pounds.

98

00:05:32,560 --> 00:05:36,440

Okay, here we go.

99

00:05:36,440 --> 00:05:41,120

So we still haven't come up with a rocket engine that could lift itself.

100

00:05:41,120 --> 00:05:42,120

Not yet.

101

00:05:44,120 --> 00:05:45,120

That's pretty good.

102

00:05:45,120 --> 00:05:47,120

Three, two, one, go.

103

00:05:47,120 --> 00:05:49,120

Looking good.

104

00:05:49,120 --> 00:05:53,200

0.77, well that's the best burn yet.

105

00:05:53,200 --> 00:05:56,400

I think we need to get some professional help.

106

00:05:56,400 --> 00:05:58,760

And then I think we need some rocket experts.

107

00:05:58,760 --> 00:06:01,240

They've had help from rocket experts before.

108

00:06:01,240 --> 00:06:06,480

In the first ever episode of Mythbusters, the Friends of Amateur Rocketry helped Adam

109

00:06:06,480 --> 00:06:10,000

and Jamie soup up a Chevy and then some.

110

00:06:10,000 --> 00:06:11,000

Fire.

111

00:06:11,000 --> 00:06:18,000

Now the Mythbusters are set to call in the Rocketeers once more for the myth of the Ming

112

00:06:18,000 --> 00:06:19,000

Dynasty astronaut.

113

00:06:19,000 --> 00:06:22,560

But first, a bit of carpentry.

114

00:06:22,560 --> 00:06:26,840

I'm making legs for my Ming Dynasty chair.

115

00:06:26,840 --> 00:06:32,760

It's got to look like an Emperor's throne circa 15th century China.

116

00:06:32,760 --> 00:06:35,040

It's just a kind of project I like to sink my teeth into.

117

00:06:35,040 --> 00:06:39,040

It's kind of like relaxing this fight from all the science.

118

00:06:39,040 --> 00:06:45,440

Determined to get someone airborne somehow, Adam's making not one rocket chair, but two.

119

00:06:45,440 --> 00:06:50,640

In line with the myth, the first will be powered by 47 traditional Chinese rockets.

120

00:06:50,640 --> 00:06:56,520

In line with Mythbusters, the second will be powered by 47 of something very modern

121

00:06:56,600 --> 00:06:57,800

and very dangerous.

122

00:06:57,800 --> 00:06:59,600

I know I'm using nail guns.

123

00:06:59,600 --> 00:07:01,040

I know.

124

00:07:01,040 --> 00:07:03,960

But it's not really about the technology of the chairs.

125

00:07:03,960 --> 00:07:07,000

It's about how far the Emperor went.

126

00:07:07,000 --> 00:07:09,160

The chairs have got to look right.

127

00:07:09,160 --> 00:07:12,760

And with the clock ticking, it's all hands on the Mythbusters deck.

128

00:07:12,760 --> 00:07:16,480

The little tiny mold is a little detail for the Ming Dynasty chair.

129

00:07:16,480 --> 00:07:19,520

We're making little tiles to decorate it with.

130

00:07:19,520 --> 00:07:21,280

And this is little Adam and Jamie tile.

131

00:07:21,280 --> 00:07:26,240

The ornate chairs will look the part, but they're also designed with flight in mind.

132

00:07:26,280 --> 00:07:31,080

One of the key design aspects of the chair is actually these two pieces right here.

133

00:07:31,080 --> 00:07:34,640

The reason I did it in two levels, I found a chair just like that and it works perfectly

134

00:07:34,640 --> 00:07:40,960

for us because I can strap the rocket in here and that rocket will be slightly cantilevered

135

00:07:40,960 --> 00:07:45,240

out so that all around the chair the rockets are pointing slightly out, which hopefully

136

00:07:45,240 --> 00:07:51,240

will provide a little more stability as they shoot towards the sky.

137

00:07:52,240 --> 00:08:00,040

Then it's pink undercoat, red overcoat, and a final touch of gold to render the chairs

138

00:08:00,040 --> 00:08:02,040

fit for an astronaut.

139

00:08:02,040 --> 00:08:03,040

Oh, Adam.

140

00:08:03,040 --> 00:08:04,040

Perfect.

141

00:08:14,040 --> 00:08:18,200

Well, you know, in all the myths we've done, Jamie, we've never compiled a file on a story

142

00:08:18,200 --> 00:08:19,200

this thick.

143

00:08:19,200 --> 00:08:21,440

Free energy is a personal best.

144

00:08:21,440 --> 00:08:23,600

Yeah, it gives me a headache just looking at it.

145

00:08:23,600 --> 00:08:26,600

I mean, I don't see any way that we can test all of these claims.

146

00:08:26,600 --> 00:08:32,120

Everything from harnessing the power of the organ to testing the efficacy of juvenile water.

147

00:08:32,120 --> 00:08:36,120

Free energy has long been a favorite of mad scientists.

148

00:08:36,120 --> 00:08:38,120

What you've seen, isn't it?

149

00:08:38,120 --> 00:08:42,920

One man crazy, three very sane spectators.

150

00:08:42,920 --> 00:08:48,520

The movie version usually involves a dastardly scheme which turns upon the crazed inventor's

151

00:08:48,520 --> 00:08:54,960

ability to suck hair-raising quantities of energy from the environment, free, gratis,

152

00:08:54,960 --> 00:08:55,960

and for nothing.

153

00:08:55,960 --> 00:08:56,960

It's alive.

154

00:08:56,960 --> 00:08:57,960

Oh, it's alive.

155

00:08:57,960 --> 00:08:58,960

It's alive.

156

00:08:58,960 --> 00:08:59,960

It's alive.

157

00:08:59,960 --> 00:09:00,960

It's alive.

158

00:09:00,960 --> 00:09:07,640

But can Adam and Jamie find a way to cut their power bill?

159

00:09:07,640 --> 00:09:13,720

Our very own mad scientists have downloaded plans for free energy devices from the Internet

160

00:09:13,720 --> 00:09:19,280

that are going to test them out with the help of Dr. Gio Hansi of MIT.

161

00:09:19,280 --> 00:09:24,560

First up, a contraption which, it is claimed, can suck energy from the curvature of space.

162

00:09:24,560 --> 00:09:30,280

Gentlemen, what we have here is a G-strain amplifier, which I built from parts you find

163

00:09:30,280 --> 00:09:31,280

at Radio Shack.

164

00:09:31,280 --> 00:09:34,240

G-strain, as opposed to F-strain.

165

00:09:34,240 --> 00:09:41,440

The G-strain amplifier looks suspiciously like what we on planet Earth call a ring oscillator,

166

00:09:41,440 --> 00:09:44,280

something you might find in a flashing bicycle light.

167

00:09:44,280 --> 00:09:49,680

In this experiment, a lithium battery is hooked up to a motor, an identical battery is hooked

168

00:09:49,680 --> 00:09:54,240

up to a motor, and a so-called G-strain amplifier.

169

00:09:54,240 --> 00:09:59,960

According to the plans, the second motor will keep running longer by drawing on the cosmic

170

00:09:59,960 --> 00:10:02,000

energy of the universe.

171

00:10:02,000 --> 00:10:04,320

Use the force, guys.

172

00:10:04,320 --> 00:10:07,920

Myth turn, Christine is roped in to keep her eye on the experiment.

173

00:10:08,920 --> 00:10:11,600

Okay, is there any paint you want me to watch dry as well?

174

00:10:11,600 --> 00:10:16,280

No, just watch carefully in the minute that it stops, let us know and hit the timer, okay?

175

00:10:16,280 --> 00:10:17,280

Okay.

176

00:10:17,280 --> 00:10:18,280

All right.

177

00:10:18,280 --> 00:10:20,840

So now we wait in the name of science.

178

00:10:20,840 --> 00:10:28,240

Well, we're up to 40 minutes and I'm still not asleep.

179

00:10:28,240 --> 00:10:29,240

It's still going.

180

00:10:29,240 --> 00:10:34,040

Then, in an intriguing development, one motor slows down.

181

00:10:34,040 --> 00:10:36,400

Could free energy be keeping the other going?

182

00:10:38,320 --> 00:10:39,400

No dice.

183

00:10:39,400 --> 00:10:42,160

It's the free energy motor that's on the wane.

184

00:10:42,160 --> 00:10:46,000

That means that this is not free energy, it's using energy.

185

00:10:46,000 --> 00:10:47,000

Yep.

186

00:10:47,000 --> 00:10:52,080

Far from recharging the battery, the G-strain amplifier is draining it.

187

00:10:52,080 --> 00:10:58,680

The experiment is left to run all day, just in case cosmic energy makes a late appearance.

188

00:10:58,680 --> 00:10:59,680

Don't hold your breath.

189

00:10:59,680 --> 00:11:01,240

Okay, so it's been a day.

190

00:11:01,240 --> 00:11:04,240

Have we managed to suck power from the curvature of space?

191

00:11:04,440 --> 00:11:08,360

Well, I see one motor going and one motor not going.

192

00:11:08,360 --> 00:11:09,360

And guess what?

193

00:11:09,360 --> 00:11:12,560

The motor that's not going is the free energy device.

194

00:11:12,560 --> 00:11:18,000

So could we, from here on in, in perpetuity, stop referring to this as a G-strain amplifier

195

00:11:18,000 --> 00:11:20,240

and call it a ring oscillator?

196

00:11:20,240 --> 00:11:21,240

Ring oscillator?

197

00:11:21,240 --> 00:11:22,680

I'd be happy to do that.

198

00:11:22,680 --> 00:11:26,520

So this one, busted, we can put it to bed and now let's send our lawyers after the

199

00:11:26,520 --> 00:11:28,920

guys who charge us 25 bucks for this little diagram.

200

00:11:34,240 --> 00:11:43,600

Officially, the first earthling to leave the planet was Russian cosmonaut Yuri Gagarin

201

00:11:43,600 --> 00:11:45,280

in 1961.

202

00:11:45,280 --> 00:11:51,080

Gagarin blasted into orbit at almost 18,000 miles per hour aboard the Vostok 1.

203

00:11:51,080 --> 00:11:57,480

But a Chinese legend claims that astrologer Wen Hu beat Gagarin into space aboard his

204

00:11:57,480 --> 00:12:02,280

rocket chair way back in 1500.

205

00:12:02,280 --> 00:12:07,760

There aren't many things you can't do in San Francisco, but space launching a Chinese

206

00:12:07,760 --> 00:12:10,160

astrologer is one of them.

207

00:12:10,160 --> 00:12:15,280

So the Mythbusters team heads for the hills and beyond to the Mojave Desert.

208

00:12:15,280 --> 00:12:20,960

Their cosmic convoy makes for the test area, where with a federal permit you can put even

209

00:12:20,960 --> 00:12:23,680

the most explosive myths on trial.

210

00:12:23,680 --> 00:12:28,200

Like did Wen Hu really win the space race?

211

00:12:28,200 --> 00:12:33,920

With the help of some friends of amateur rocketry, mission control is established a safe distance

212

00:12:33,920 --> 00:12:35,480

from the launch pad.

213

00:12:35,480 --> 00:12:40,920

But the savage desert heat is too much for one would-be rocketeer.

214

00:12:40,920 --> 00:12:45,920

It's going to be a long day for the redhead.

215

00:12:45,920 --> 00:12:50,280

To make sure the day goes off with a bang, the rocket experts have come equipped with

216

00:12:50,280 --> 00:12:52,840

a recipe for super strength gun powder.

217

00:12:52,840 --> 00:12:56,000

Adam's appetite for this myth is quickly restored.

218

00:12:56,000 --> 00:12:57,000

You making curtain?

219

00:12:57,000 --> 00:12:59,360

This is just like a cooking show.

220

00:12:59,360 --> 00:13:05,160

To make 47 period rockets, sift a large helping of gun powder and gently fold in a spoonful

221

00:13:05,160 --> 00:13:06,160

of tar.

222

00:13:06,160 --> 00:13:14,360

And you'll find that if you add the sauce to the powder, you get a very explosive mix.

223

00:13:14,360 --> 00:13:17,080

Yes, it's wonderful.

224

00:13:17,080 --> 00:13:20,240

The stronger mixture is only half the story.

225

00:13:20,240 --> 00:13:25,960

The rocketeers have also added a nozzle, which by narrowing the exhaust aperture increases

226

00:13:25,960 --> 00:13:28,080

the pressure inside the rocket.

227

00:13:28,080 --> 00:13:31,840

More pressure means more thrust and better performance.

228

00:13:31,840 --> 00:13:35,600

Unless it all goes wrong, in which case you've got a bomb on your hands.

229

00:13:35,600 --> 00:13:46,680

5, 4, 3, 2, 1, 0.

230

00:13:46,680 --> 00:13:47,680

That's perfect.

231

00:13:47,680 --> 00:13:48,680

That's what the nozzle.

232

00:13:48,680 --> 00:13:53,320

This is going to be a good day.

233

00:13:53,320 --> 00:13:58,640

With the nozzle, the rocket's performance leaps to around 5 pounds of thrust, so the

234

00:13:58,640 --> 00:14:01,080

production line swings into gear.

235

00:14:01,080 --> 00:14:05,520

47 rockets are packed, primed and strapped to chair number one.

236

00:14:05,520 --> 00:14:09,440

Well, we're going to have close to 50 pounds of gun powder sitting right here.

237

00:14:09,440 --> 00:14:12,360

And I guess we should be careful with it.

238

00:14:12,360 --> 00:14:17,760

So far I have yet to see the gun powder ignite itself, but I guarantee you if I saw any kind

239

00:14:17,760 --> 00:14:21,840

of smoldering or anything, I'm leaving very quickly.

240

00:14:21,840 --> 00:14:26,520

With ground control, opinion about the likely outcome is divided.

241

00:14:26,520 --> 00:14:28,240

We're not even going to see this thing.

242

00:14:28,240 --> 00:14:33,520

It's just going to go poof and there's going to be an enormous cloud of smoke and...

243

00:14:33,520 --> 00:14:35,920

I think it'll go up about 10 feet and go poof.

244

00:14:35,920 --> 00:14:36,920

You think so?

245

00:14:36,920 --> 00:14:37,920

Oh yeah.

246

00:14:37,920 --> 00:14:38,920

You think we'll have lift off?

247

00:14:38,920 --> 00:14:39,920

I think we'll have lift off.

248

00:14:39,920 --> 00:14:44,000

I really honestly believe you will.

249

00:14:44,000 --> 00:14:47,520

Meanwhile another team is giving chair number two special treatment.

250

00:14:47,520 --> 00:14:53,600

Just in case the Chinese had built some super efficient rockets back then, we have 47 what

251

00:14:53,600 --> 00:14:59,160

are called iMotors, which are very powerful 50 pound thrust 12 inch long rockets.

252

00:14:59,160 --> 00:15:04,160

And we're going to attach 47 of those to the second chair to see what kind of launch he

253

00:15:04,160 --> 00:15:07,680

could have gotten if everything was as good as it could be.

254

00:15:07,680 --> 00:15:12,560

MythBusters veteran Eric Gates of the Jato Rocket Myth is impressed.

255

00:15:12,560 --> 00:15:13,560

This is out on a limb.

256

00:15:13,560 --> 00:15:19,160

This is definitely one of the most far out, far reaching things that we've done with

257

00:15:19,160 --> 00:15:20,160

rocket motors.

258

00:15:20,160 --> 00:15:24,640

It should be a lot of fun to see one who actually take a trip.

259

00:15:24,640 --> 00:15:30,700

So far this myth is deficient in the Chinese Astrologer Department to the tune of one.

260

00:15:30,700 --> 00:15:35,080

No prizes for guessing who gets to play the part of the daredevil oriental astronaut.

261

00:15:35,080 --> 00:15:38,440

Put both legs in first don't you think?

262

00:15:38,440 --> 00:15:40,080

I think you might be right.

263

00:15:40,080 --> 00:15:42,320

Or do you do it differently?

264

00:15:42,320 --> 00:15:45,400

I put on my pants one leg at a time.

265

00:15:45,400 --> 00:15:47,520

Oh he's a picture.

266

00:15:47,520 --> 00:15:48,520

He looks great.

267

00:15:48,520 --> 00:15:54,520

Oh I'm going to teach you a lesson.

268

00:15:54,520 --> 00:15:59,840

I think Buster, aka one who is ready for his launch.

269

00:15:59,840 --> 00:16:02,600

And rocket chair number one is ready too.

270

00:16:02,600 --> 00:16:04,480

This is the most dangerous part.

271

00:16:04,480 --> 00:16:10,400

80 pounds of gun powder, 22 idiots, one crash test dummy.

272

00:16:10,760 --> 00:16:20,560

In the myth of free energy, Adams found plans on the internet for a device that claims to

273

00:16:20,560 --> 00:16:22,880

suck power from solar rays.

274

00:16:22,880 --> 00:16:24,960

I've got one here that I'm actually kind of jazzed about.

275

00:16:24,960 --> 00:16:29,160

It's basically a temperature wheel sometimes called a minto wheel after its inventor.

276

00:16:29,160 --> 00:16:33,880

The temperature wheel consists of pairs of tanks joined by a pipe.

277

00:16:33,880 --> 00:16:37,240

Half of the tanks are filled with propane and placed in water.

278

00:16:37,640 --> 00:16:42,960

When the water is heated by the sun, the propane vaporizes and condenses in the top tanks,

279

00:16:42,960 --> 00:16:46,560

which become heavier and the wheel rotates.

280

00:16:46,560 --> 00:16:47,560

The upshot?

281

00:16:47,560 --> 00:16:48,560

Free energy.

282

00:16:52,000 --> 00:16:56,960

Intoxicated by the sweet scent of power, Adam gets down to work.

283

00:16:56,960 --> 00:17:03,520

With world domination in his sights, he ropes in his evil accomplice and metal expert Scotty.

284

00:17:03,520 --> 00:17:05,760

Can you do a felit weld in there?

285

00:17:05,760 --> 00:17:06,760

Do you have to?

286

00:17:06,760 --> 00:17:07,760

Is that alright?

287

00:17:07,760 --> 00:17:08,760

Yeah.

288

00:17:08,760 --> 00:17:09,760

Okay.

289

00:17:09,760 --> 00:17:12,280

I've bridged bigger gaps than that before.

290

00:17:12,280 --> 00:17:14,280

Scotty welds at Adam's Slots.

291

00:17:14,280 --> 00:17:19,480

And before you can say, free energy my foot, the temperature wheel takes shape.

292

00:17:19,480 --> 00:17:23,080

I'm not sure what it's going to do, but it looks cool.

293

00:17:23,080 --> 00:17:25,040

Doesn't it though?

294

00:17:25,040 --> 00:17:28,320

So you're going to put some kind of flammable liquid in all these and then light them all

295

00:17:28,320 --> 00:17:29,320

off at the same time?

296

00:17:29,320 --> 00:17:32,400

Fill half of them full of propane, shoot a bullet, light it on fire, the whole thing

297

00:17:32,400 --> 00:17:35,200

like that.

298

00:17:35,200 --> 00:17:39,960

You know, what I can't wait for is the look on the guy's face when I bring these in to

299

00:17:39,960 --> 00:17:43,760

have them filled with propane.

300

00:17:43,760 --> 00:17:45,480

There ought to be a law against that.

301

00:17:45,480 --> 00:17:47,680

There probably is.

302

00:17:47,680 --> 00:17:50,800

Make that definitely.

303

00:17:50,800 --> 00:17:55,600

Adam's not finding this such a gas after all.

304

00:17:55,600 --> 00:18:00,920

Free energy suddenly seems further away than ever as his temperature wheel springs a leak.

305

00:18:00,920 --> 00:18:04,120

This is a problem because we've got propane leaking out of a hole.

306

00:18:04,120 --> 00:18:07,840

We can't weld that hole until we get rid of all the propane, like all of it.

307

00:18:07,840 --> 00:18:13,440

We have to go back to the shop now and I don't know what the hell we're going to do.

308

00:18:13,440 --> 00:18:16,840

Back at base, a web sourced free energy kit has arrived.

309

00:18:16,840 --> 00:18:22,840

Finally, we got something that's not just plans, it's actually all the parts and the

310

00:18:22,840 --> 00:18:27,320

plans we need to tap into real free energy.

311

00:18:27,320 --> 00:18:32,840

Apparently if you have this box hooked up to something like a 100 foot radio antenna,

312

00:18:32,840 --> 00:18:34,800

you can power a clock radio.

313

00:18:34,800 --> 00:18:39,520

I don't know, still seems like a 9 volt battery is a better bet.

314

00:18:39,520 --> 00:18:44,600

Radio waves are a form of radiation and can be converted into electricity.

315

00:18:44,600 --> 00:18:47,560

But will it be enough to power a clock radio?

316

00:18:47,560 --> 00:18:50,160

First, Adam assembles the box.

317

00:18:50,160 --> 00:18:54,400

Then he rigs up a 100 foot long horizontal antenna.

318

00:18:54,400 --> 00:18:57,040

Then he prepares to ground the device.

319

00:18:57,040 --> 00:19:05,280

He's about to find out the hard way that Jamie's warehouse is miswired.

320

00:19:05,280 --> 00:19:08,560

Now there's no question that Adam's a bright spark.

321

00:19:08,560 --> 00:19:11,160

That might have been, I don't know, a bad noise.

322

00:19:11,160 --> 00:19:12,800

But he's no electrician.

323

00:19:12,800 --> 00:19:16,520

I'm releasing the mysterious blue smoke here.

324

00:19:16,520 --> 00:19:21,080

The problem is once you release the mysterious blue smoke, electronics don't work anymore.

325

00:19:21,080 --> 00:19:24,120

Luckily, we accidentally ordered two of these kits.

326

00:19:24,120 --> 00:19:27,240

Adam's soldiers on in the face of probable electrocution.

327

00:19:27,240 --> 00:19:30,640

It's all a learning experience.

328

00:19:30,640 --> 00:19:33,200

Radio wave energy extractor, Mark II.

329

00:19:33,200 --> 00:19:34,720

Hey Jamie, check this out.

330

00:19:34,720 --> 00:19:38,720

I hook up the antenna, I'm getting almost half a volt.

331

00:19:38,720 --> 00:19:43,040

You know, it's probably enough to power the display on a digital watch.

332

00:19:43,040 --> 00:19:46,720

Yeah, I think you would need about a volt and a half or so.

333

00:19:46,720 --> 00:19:49,240

And so that means that you would have to have three of these.

334

00:19:49,240 --> 00:19:53,320

So, three large devices to power one tiny wristwatch.

335

00:19:53,320 --> 00:19:55,720

For free energy, it's pretty costly.

336

00:19:55,720 --> 00:19:59,240

Free energy just doesn't seem that efficient to me.

337

00:19:59,240 --> 00:20:04,520

It's so cumbersome and takes so much energy to get the tiniest amounts of power.

338

00:20:04,520 --> 00:20:13,440

You might as well just go get a battery.

339

00:20:13,440 --> 00:20:17,800

In the myth of the Ming Dynasty astronaut, zero hour is approaching.

340

00:20:17,800 --> 00:20:24,960

When Wanhu took the hot seat in 1500 AD, he had 47 assistants on hand to light the 47

341

00:20:24,960 --> 00:20:29,160

fuses, which is where Adam and Jamie part company with tradition.

342

00:20:29,160 --> 00:20:30,800

Guys, you're going to hook up the wires?

343

00:20:30,800 --> 00:20:31,960

We're going to clear the hell out.

344

00:20:31,960 --> 00:20:33,040

Let's everyone go that way.

345

00:20:33,040 --> 00:20:38,320

The launch pad is cleared and everyone retires to the bunker from where the ignition switch

346

00:20:38,320 --> 00:20:41,160

can be thrown in relative safety.

347

00:20:41,160 --> 00:20:46,440

This may be the moment where Wanhu began to have second thoughts.

348

00:20:46,440 --> 00:20:49,760

It's kind of beautiful out here in an eerie way.

349

00:20:49,760 --> 00:20:53,520

It's like so serene and calm.

350

00:20:53,520 --> 00:20:57,880

Something very violent in the middle of all this serenity is about to happen.

351

00:20:57,880 --> 00:20:58,880

Adam's tickled pink.

352

00:20:58,880 --> 00:21:08,520

I'm staring at a Chinese dressed crash distillery on a throne strapped to 70 pounds of gunpowder.

353

00:21:08,520 --> 00:21:11,120

I just had another one of those myth busters moments.

354

00:21:11,120 --> 00:21:13,880

For Buster, it's no laughing matter.

355

00:21:13,920 --> 00:21:15,200

Okay, I'm going to arm it.

356

00:21:15,200 --> 00:21:20,440

These arming systems are going to fire in 10 seconds.

357

00:21:20,440 --> 00:21:23,840

A centuries old mystery is about to be solved.

358

00:21:23,840 --> 00:21:26,760

Will it be lift off or lights out?

359

00:21:26,760 --> 00:21:27,760

One.

360

00:21:27,760 --> 00:21:34,800

Well, it was fast, whatever it was.

361

00:21:34,800 --> 00:21:37,600

Just like Wanhu, Buster's vanished.

362

00:21:37,600 --> 00:21:39,600

But he's no astronaut.

363

00:21:39,600 --> 00:21:41,600

In fact, he's toast.

364

00:21:42,320 --> 00:21:44,480

Get the dummy before it goes.

365

00:21:48,320 --> 00:21:50,320

His ass is on fire.

366

00:21:53,320 --> 00:21:58,280

And here I thought the elevator of death was the most damaged he'd ever with stand.

367

00:21:58,280 --> 00:22:01,320

He is burnt to a crisp.

368

00:22:04,320 --> 00:22:07,440

Buster's screwed.

369

00:22:07,440 --> 00:22:13,080

I think there's hardly a single patch of skin left on his body that is uncharred.

370

00:22:13,080 --> 00:22:18,640

And frankly, I don't think this is something that we can really fix.

371

00:22:18,640 --> 00:22:22,160

This time we're going to have to start over from scratch with Buster.

372

00:22:22,160 --> 00:22:28,520

We might get some of his bones or something, but Buster is gone as we know him.

373

00:22:28,520 --> 00:22:34,760

Buster, aka Chinese astrologer, was completely obliterated.

374

00:22:34,760 --> 00:22:38,400

The amount of heat was just unfathomable.

375

00:22:38,400 --> 00:22:42,400

A moment's silence for Wanhua.

376

00:22:42,400 --> 00:22:48,080

The heat from the rockets caused multiple failure and a wipeout instead of a blast-off.

377

00:22:48,080 --> 00:22:52,960

What we've just replicated is pretty identical to the eyewitness reports.

378

00:22:52,960 --> 00:22:59,800

47 packed rockets, black powder, and Buster was taken to another world in a puff of smoke.

379

00:22:59,800 --> 00:23:07,720

As soon as Buster cools down enough and his flesh is no longer molten, we're going to

380

00:23:07,720 --> 00:23:10,680

put on this new Chinese suit on him.

381

00:23:10,680 --> 00:23:16,520

Get out throne number two, which has 47 brand new rockets strapped to it.

382

00:23:16,520 --> 00:23:21,520

And we're going to see what kind of lift Buster might have gotten in the best of all possible

383

00:23:21,520 --> 00:23:23,520

circumstances.

384

00:23:23,520 --> 00:23:29,280

47 modern rockets should give almost two and a half thousand pounds of thrust.

385

00:23:29,280 --> 00:23:31,960

Buster weighs in at 180 pounds.

386

00:23:31,960 --> 00:23:34,640

This time, gravity's got a fight on its hands.

387

00:23:34,640 --> 00:23:39,440

We have a fair suspicion that this chair is actually going to go somewhere.

388

00:23:39,440 --> 00:23:44,960

And so, when Buster just falls out in the first couple of feet, I thought we should probably

389

00:23:44,960 --> 00:23:47,560

anchor him a little better than we did the last time.

390

00:23:47,560 --> 00:23:50,160

Looks like Buster's ready for the second shot.

391

00:23:50,160 --> 00:23:54,160

Okay, everybody, you're going to hear a countdown.

392

00:23:54,160 --> 00:23:58,240

And when the countdown goes, these rocket motors are going to burn for four and a half

393

00:23:58,240 --> 00:23:59,240

seconds.

394

00:23:59,240 --> 00:24:02,720

Be aware that this thing is going to be going crazy.

395

00:24:02,720 --> 00:24:05,640

Just look out and stay away.

396

00:24:05,640 --> 00:24:06,640

This is it, Buster.

397

00:24:06,640 --> 00:24:07,640

You're on your own.

398

00:24:07,640 --> 00:24:16,640

Three, five, four, three, two, one, go.

399

00:24:16,640 --> 00:24:27,640

Well, there you go.

400

00:24:27,640 --> 00:24:40,640

Well, he definitely got off the ground.

401

00:24:40,640 --> 00:24:44,760

Oh, my poor chair.

402

00:24:44,760 --> 00:24:46,720

Oh, man.

403

00:24:46,720 --> 00:24:52,240

I'm glad we tied him in.

404

00:24:52,240 --> 00:24:55,200

I think everything held as good as we could have asked it to hold.

405

00:24:55,200 --> 00:24:56,960

Lost the leg.

406

00:24:56,960 --> 00:24:59,040

The joints came off this time.

407

00:24:59,040 --> 00:25:04,960

The high-speed camera shows Buster did get airborne before flipping over in a rocket-powered

408

00:25:04,960 --> 00:25:06,360

rodeo to oblivion.

409

00:25:06,360 --> 00:25:09,240

Well, guys, I guess that's myth-busted.

410

00:25:09,240 --> 00:25:13,720

For one, there's no way you're going to get 47 rockets to fire at once in the Ming dynasty,

411

00:25:13,720 --> 00:25:15,520

let alone how hard it was to do now.

412

00:25:15,520 --> 00:25:19,520

Yeah, and even if you could, it's just going to go up in a fireball, you know?

413

00:25:19,520 --> 00:25:25,480

And even if you got all of that to work perfectly, there's no way that this chair with these

414

00:25:25,480 --> 00:25:29,920

rockets is getting to 17,800 miles an hour and into orbit.

415

00:25:29,920 --> 00:25:30,920

Yeah, myth-busted.

416

00:25:30,920 --> 00:25:32,920

Myth-busted.

417

00:25:32,920 --> 00:25:33,920

Let's go home.

418

00:25:33,920 --> 00:25:34,920

I need to get into a pool.

419

00:25:34,920 --> 00:25:51,040

What do you got there, Adam?

420

00:25:51,040 --> 00:25:54,280

I have got the part of a really fun myth to test.

421

00:25:54,280 --> 00:25:56,520

It's actually a total classic.

422

00:25:56,520 --> 00:26:00,640

Can a ceiling fan, while it's spinning, chop your head off?

423

00:26:00,640 --> 00:26:01,640

Nice.

424

00:26:01,640 --> 00:26:05,000

Yeah, and the myth is actually told in usually a couple of different versions.

425

00:26:05,000 --> 00:26:09,920

In one, husband and wife are getting frisky and he's all dressed up in a costume and

426

00:26:09,920 --> 00:26:15,960

he comes to leap towards her and he jumps a little too high and gets beheaded.

427

00:26:15,960 --> 00:26:20,200

And in another one, kids are like jumping up and down on a bed and, again, one of them

428

00:26:20,200 --> 00:26:22,200

jumps too high.

429

00:26:22,200 --> 00:26:24,880

So two myths, two rigs.

430

00:26:24,880 --> 00:26:30,040

The myth of the jumping kid calls for a rig to raise a head into the fan from below.

431

00:26:30,040 --> 00:26:35,200

For the myth of the lover's leap, they'll need a rig to carry a head into the ceiling

432

00:26:35,200 --> 00:26:37,600

fan at neck level.

433

00:26:37,600 --> 00:26:39,200

Which begs another question.

434

00:26:39,200 --> 00:26:42,920

Wait, wait, before you say raise a head, where are we going to get a head?

435

00:26:42,920 --> 00:26:45,640

Well, we're going to have to duplicate one.

436

00:26:45,640 --> 00:26:50,760

And we've often done it with ballistics gelatin, but in this case, we might have to actually

437

00:26:50,760 --> 00:26:54,320

put, I mean, it may be gross, but like a real spine in there.

438

00:26:54,320 --> 00:26:58,200

Obviously we won't be able to get a human spine, but what I was thinking was something

439

00:26:58,200 --> 00:27:00,320

like a pig's spine.

440

00:27:00,320 --> 00:27:03,880

While Tori tracks down a dead pig, the girls go shopping.

441

00:27:03,880 --> 00:27:05,720

Scotty, what do you think they sell here?

442

00:27:05,720 --> 00:27:07,520

I think this might be the place.

443

00:27:07,520 --> 00:27:09,680

I think we could find some fans here.

444

00:27:09,680 --> 00:27:14,960

If there is such a thing as a fan of death, it's bound to be at the imaginatively named

445

00:27:14,960 --> 00:27:15,960

house of fans.

446

00:27:15,960 --> 00:27:19,720

So can you show us what the most common ceiling fan you'd have that most people would have

447

00:27:19,720 --> 00:27:20,720

in their house?

448

00:27:20,720 --> 00:27:21,720

I sure can.

449

00:27:21,720 --> 00:27:24,840

One of the most common ones is this one here with the lights at the bottom.

450

00:27:24,840 --> 00:27:27,720

It's your standard 52 inch blade fan.

451

00:27:27,720 --> 00:27:29,880

It's got wood blades on it.

452

00:27:29,880 --> 00:27:35,080

This fan fits the bill for the basic myth, but the girls want something more dangerous.

453

00:27:35,080 --> 00:27:36,640

Leave it to the mythbusters.

454

00:27:36,640 --> 00:27:37,800

Don't try this one at home.

455

00:27:37,800 --> 00:27:43,400

If you wanted to get as close as you could to chopping somebody's head off, what would

456

00:27:43,400 --> 00:27:44,400

you recommend?

457

00:27:44,400 --> 00:27:45,400

You were the fan expert.

458

00:27:45,400 --> 00:27:46,400

Okay.

459

00:27:46,400 --> 00:27:47,400

Bring it on.

460

00:27:47,400 --> 00:27:49,680

If I was still inclined to do that to somebody, I would maybe think of an industrial.

461

00:27:49,680 --> 00:27:52,600

I would say a style fan, something that's going to maybe move a little bit faster, blade

462

00:27:52,600 --> 00:27:53,880

a little bit stronger.

463

00:27:53,880 --> 00:28:00,200

Brian boasts one particularly head turning industrial fan, complete with powerful motor

464

00:28:00,200 --> 00:28:01,880

and metal blades.

465

00:28:01,880 --> 00:28:04,880

It's love at first sight for these chopaholics.

466

00:28:04,880 --> 00:28:06,760

That one looks really dangerous.

467

00:28:06,760 --> 00:28:09,560

I think that one's scary and we can make it even scarier.

468

00:28:09,560 --> 00:28:10,560

It has metal blades.

469

00:28:10,560 --> 00:28:14,440

Oh boy, what we can do with this.

470

00:28:14,440 --> 00:28:17,040

Back at base, the hunter returns.

471

00:28:18,040 --> 00:28:20,720

All right, let's see it.

472

00:28:20,720 --> 00:28:25,160

I hope you guys are hungry because I got 150 pounds of pork.

473

00:28:25,160 --> 00:28:26,160

Are you serious?

474

00:28:26,160 --> 00:28:28,160

You guys are going to love this.

475

00:28:28,160 --> 00:28:29,160

Oh boy.

476

00:28:29,160 --> 00:28:33,120

Vegetarian Carrie didn't have the backbone for this shopping trip.

477

00:28:33,120 --> 00:28:35,480

Vegetarian, you were not making me go.

478

00:28:35,480 --> 00:28:37,160

You wanted a huge pig.

479

00:28:37,160 --> 00:28:39,160

It was pretty bad.

480

00:28:39,160 --> 00:28:40,160

Whoa.

481

00:28:40,160 --> 00:28:41,160

Whoa.

482

00:28:41,160 --> 00:28:42,160

Oh yeah.

483

00:28:42,160 --> 00:28:47,000

Look, this is going to be perfect.

484

00:28:47,000 --> 00:28:52,360

We still got all of its meat, so it'll be as close to a real human neck as we can get.

485

00:28:52,360 --> 00:28:58,360

I thought you guys were going to get like just a science class regular spine that just

486

00:28:58,360 --> 00:28:59,360

looks like a model.

487

00:28:59,360 --> 00:29:02,560

I didn't think we were getting anything with carnage attached.

488

00:29:02,560 --> 00:29:04,360

Go get some barbecue sauce.

489

00:29:04,360 --> 00:29:07,960

I can't believe they got spine with the meat on it.

490

00:29:07,960 --> 00:29:09,800

This is disgusting.

491

00:29:09,800 --> 00:29:12,720

Carrie's found herself in a vegetarian nightmare.

492

00:29:13,720 --> 00:29:19,720

Carnivorous Tori gets down to the job of making a home for the pig spine.

493

00:29:19,720 --> 00:29:20,720

It's over.

494

00:29:20,720 --> 00:29:26,720

In keeping with Mythbusters tradition, it'll be Adam's head on the chopping block.

495

00:29:30,720 --> 00:29:36,720

In a previous episode, gelatin molds of Adam's head were used to test the myth that tongue

496

00:29:36,720 --> 00:29:38,720

studs attract lightning.

497

00:29:39,720 --> 00:29:44,220

The guys discovered that you're only sure to light up if you're sporting a piercing the

498

00:29:44,220 --> 00:29:45,720

size of a doorknob.

499

00:29:45,720 --> 00:29:50,520

For the myth of the killer ceiling fan, the dummy's head will have to be as close to the

500

00:29:50,520 --> 00:29:52,640

real thing as possible.

501

00:29:52,640 --> 00:29:54,640

It's a gruesome prospect.

502

00:29:54,640 --> 00:29:57,640

I'm going to cut this to make it fit in our mold.

503

00:29:57,640 --> 00:29:59,640

Are you going to do that now?

504

00:29:59,640 --> 00:30:01,640

Yeah, I'm leaving the room.

505

00:30:01,640 --> 00:30:03,640

I'm leaving the room.

506

00:30:03,640 --> 00:30:07,600

Pig spine will stiffen up the neck, but how about the head?

507

00:30:07,600 --> 00:30:11,800

In the myth of the jumping kid, there's no guarantee that the neck will reach the fan

508

00:30:11,800 --> 00:30:12,800

at all.

509

00:30:12,800 --> 00:30:14,720

Now, what about skull?

510

00:30:14,720 --> 00:30:17,840

Because I'm thinking if you're raising up and you're jumping, you're going to have to

511

00:30:17,840 --> 00:30:22,680

jump so fast to get your neck up to that level that I would think it'd be more likely to

512

00:30:22,680 --> 00:30:23,680

get scout.

513

00:30:23,680 --> 00:30:24,680

Absolutely.

514

00:30:24,680 --> 00:30:26,560

And so probably some human cranium.

515

00:30:26,560 --> 00:30:29,040

We've done this before when we did Penny drop.

516

00:30:29,040 --> 00:30:30,360

We have human cranium.

517

00:30:30,360 --> 00:30:32,200

I have the human cranium in storage yet.

518

00:30:32,200 --> 00:30:33,200

You would.

519

00:30:33,200 --> 00:30:35,480

We have one of everything at Mythbusters.

520

00:30:35,480 --> 00:30:40,360

While the others plot the dummy's internal structure, squeamish Carrie busies herself

521

00:30:40,360 --> 00:30:43,320

with making molds in the vacuum form machine.

522

00:30:43,320 --> 00:30:48,560

Once we get them out of like this, we're going to glue both of these negatives together,

523

00:30:48,560 --> 00:30:53,480

put them upside down, fill them with ballistics gel, a little bit of cranium, and a spine

524

00:30:53,480 --> 00:30:57,520

that should emulate the insides of a human.

525

00:30:57,520 --> 00:31:02,680

Using his special effects know-how, Tori makes latex arteries, which are filled with fake

526

00:31:02,680 --> 00:31:03,760

blood.

527

00:31:03,760 --> 00:31:06,320

In the interests of scientific accuracy, of course.

528

00:31:06,320 --> 00:31:07,960

This is the artery.

529

00:31:07,960 --> 00:31:12,040

When that blade can fly through there, blood is going to spray all over the room.

530

00:31:12,040 --> 00:31:13,920

It kind of reminds me of alien.

531

00:31:13,920 --> 00:31:20,360

When the thing pops out of the guy's stomach, it shoots across the table.

532

00:31:20,360 --> 00:31:21,360

It's alive.

533

00:31:21,360 --> 00:31:22,840

This is so bizarre.

534

00:31:22,840 --> 00:31:25,240

This is so bizarre.

535

00:31:25,240 --> 00:31:29,760

Carrie's nightmare deepens as the ghoulish head takes shape.

536

00:31:29,760 --> 00:31:31,200

Next step, skin.

537

00:31:31,200 --> 00:31:36,280

A coating of latex is painted on the insides of the molds.

538

00:31:36,280 --> 00:31:38,000

In goes the cranium.

539

00:31:38,000 --> 00:31:43,200

The molds are then filled with ballistics gel, used by forensic experts to replicate

540

00:31:43,200 --> 00:31:45,000

flesh and tissue.

541

00:31:45,000 --> 00:31:49,120

And finally, Carrie's favorite, arteries and spine.

542

00:31:49,120 --> 00:31:52,200

That is one of the grossest things I think I have ever witnessed.

543

00:31:52,200 --> 00:31:53,200

Oh my god.

544

00:31:53,200 --> 00:31:55,960

That actually worked out pretty good, didn't it?

545

00:31:55,960 --> 00:31:56,960

Yes, it did.

546

00:31:56,960 --> 00:31:57,960

Yes, it did.

547

00:31:57,960 --> 00:31:58,960

Wow.

548

00:31:59,120 --> 00:32:03,760

The heads are left to set in ice, and the build team return to the problem of the rigs that

549

00:32:03,760 --> 00:32:06,480

will deliver them into the fans.

550

00:32:06,480 --> 00:32:10,440

Never one to shun a shortcut, Tori makes a beeline for Jamie.

551

00:32:10,440 --> 00:32:13,160

So what I need is some kind of hydraulic lifter.

552

00:32:13,160 --> 00:32:16,880

You know what I've got is a thing that we built for a commercial some time ago, and

553

00:32:16,880 --> 00:32:20,040

it was made to lift a little kid up into frame on camera.

554

00:32:20,040 --> 00:32:21,040

That would be perfect.

555

00:32:21,040 --> 00:32:24,160

So it was like 50, 60 pounds, I believe we had sitting on it.

556

00:32:24,160 --> 00:32:25,160

That's perfect.

557

00:32:25,160 --> 00:32:30,760

The myth is that somebody jumped on a bed and jumped into the ceiling fan.

558

00:32:30,760 --> 00:32:35,600

Jamie's scissor jack saves Tori a load of time and effort.

559

00:32:35,600 --> 00:32:41,600

Meanwhile, Scotty and Carrie scout out a test chamber.

560

00:32:41,600 --> 00:32:46,240

Scotty manufactures the rig for the myth of the lover's leap.

561

00:32:46,240 --> 00:32:52,680

A track and dolly to carry the head neck first into the blades.

562

00:32:52,680 --> 00:32:54,560

Up on the myth busters chopping block.

563

00:32:54,560 --> 00:32:57,120

I'm going to feed you the wires first.

564

00:32:57,120 --> 00:32:58,120

Okay.

565

00:32:58,120 --> 00:33:00,760

Will be the common household ceiling fan.

566

00:33:00,760 --> 00:33:02,600

Okay.

567

00:33:02,600 --> 00:33:07,760

Once it's in place, Tori checks that the scissor jack is positioned at the correct level.

568

00:33:07,760 --> 00:33:11,400

This lift is about a foot and a half.

569

00:33:11,400 --> 00:33:16,600

So that'll give us enough lift to get it safely into the or unsafely into the fan.

570

00:33:16,600 --> 00:33:19,960

Adam swings by death row to lighten the moon.

571

00:33:19,960 --> 00:33:21,680

I feel like I'm in laughing here.

572

00:33:21,680 --> 00:33:22,680

Bye guys.

573

00:33:22,680 --> 00:33:23,680

See you guys later.

574

00:33:23,680 --> 00:33:24,680

All right, man.

575

00:33:24,680 --> 00:33:25,680

Thanks for having us.

576

00:33:25,680 --> 00:33:35,800

Finally, bulletproof plastic is fitted to protect the team while they observe the experiments

577

00:33:35,800 --> 00:33:37,760

from outside the test chamber.

578

00:33:37,760 --> 00:33:39,760

The stage is set.

579

00:33:39,760 --> 00:33:42,600

The dummy is unveiled.

580

00:33:42,600 --> 00:33:48,040

That is nasty.

581

00:33:48,040 --> 00:33:53,600

In the myth of free energy, Adam's been deflated by the discovery that his temperature wheel

582

00:33:53,600 --> 00:33:55,120

leaks gas.

583

00:33:55,120 --> 00:33:57,440

He's on a collision course with his welder, Scotty.

584

00:33:57,440 --> 00:33:59,320

I've got a bone to pick with you.

585

00:33:59,320 --> 00:34:01,160

We tried filling these things with propane today.

586

00:34:01,160 --> 00:34:02,600

Because I can smell it.

587

00:34:02,600 --> 00:34:04,720

Yeah, it's leaking out of your weld.

588

00:34:04,720 --> 00:34:09,240

Scotty protests that she didn't know Adam intended to fill the tanks with propane.

589

00:34:09,240 --> 00:34:12,280

Well, first I said that I needed gas-tight welds from you.

590

00:34:12,280 --> 00:34:15,520

The people that filled this want nothing more to do with this.

591

00:34:15,520 --> 00:34:16,520

Tori.

592

00:34:16,520 --> 00:34:23,320

Well, it looks like every possible thing that could be failing on my rig is actually failing.

593

00:34:23,320 --> 00:34:29,640

And I know this seems consistent, but there was a time I was really good at making things.

594

00:34:29,640 --> 00:34:32,640

Oh, no.

595

00:34:32,640 --> 00:34:34,640

Uh-oh.

596

00:34:34,640 --> 00:34:38,560

Thank you, Bob.

597

00:34:38,560 --> 00:34:42,000

Adam comes up with an unusual solution to his leaking wheel.

598

00:34:42,000 --> 00:34:48,160

I am actually pulling a vacuum on each one of these pipes so that I can capillary some

599

00:34:48,160 --> 00:34:55,440

glue into the leaky or problematic areas of my welds and then cover over it with a engine

600

00:34:55,440 --> 00:35:02,480

epoxy to eliminate all the problems you would have welding a casting to a steel pipe.

601

00:35:02,480 --> 00:35:03,480

Crazy glue.

602

00:35:03,480 --> 00:35:04,480

I need crazy glue.

603

00:35:04,480 --> 00:35:09,680

On goes the crazy glue, followed by some hard-wearing engine epoxy.

604

00:35:09,680 --> 00:35:10,680

Oh.

605

00:35:10,680 --> 00:35:11,680

Oh.

606

00:35:11,680 --> 00:35:17,280

For the temperature wheel to have any chance of success, it must be gas-tight.

607

00:35:17,280 --> 00:35:23,040

Adam leaves the epoxy to set and turns his power-crazed mind to the next free-energy

608

00:35:23,040 --> 00:35:24,040

device.

609

00:35:24,040 --> 00:35:25,040

What is next?

610

00:35:25,040 --> 00:35:26,040

The Bidini motor.

611

00:35:26,040 --> 00:35:27,040

The Bidini motor.

612

00:35:27,040 --> 00:35:32,000

You know, the Bidini motor is like the holy grail of the free-energy freaks.

613

00:35:32,000 --> 00:35:34,280

It couldn't be simpler.

614

00:35:34,280 --> 00:35:41,080

A battery drives a motor which spins up a flywheel, which charges wire coils which in

615

00:35:41,080 --> 00:35:48,440

turn recharge the battery, and bingo, a perpetual motion or over-unity machine.

616

00:35:48,440 --> 00:35:52,240

It's important to keep an open mind and realize that all the principles that drive the over-unity

617

00:35:52,240 --> 00:35:56,760

machines operate outside of everything you've ever heard about science.

618

00:35:56,760 --> 00:36:03,320

MIT's Dr. Gio Homsí has been helping the guys by assembling the contraption and with

619

00:36:03,320 --> 00:36:05,960

his pedigree, they're quickly in business.

620

00:36:05,960 --> 00:36:07,200

Free energy, man.

621

00:36:07,200 --> 00:36:08,200

Here we go.

622

00:36:08,200 --> 00:36:09,560

Activate the modulator.

623

00:36:09,560 --> 00:36:12,360

Modulator activated.

624

00:36:12,360 --> 00:36:17,840

A modulator switches the motor on and off, so preserving power while the flywheel keeps

625

00:36:17,840 --> 00:36:21,240

on spinning, in theory, replenishing the battery.

626

00:36:21,240 --> 00:36:25,400

Okay, it's spinning up.

627

00:36:25,400 --> 00:36:27,400

I can hear it getting slower.

628

00:36:27,400 --> 00:36:29,400

Yeah, it seems to be out.

629

00:36:29,400 --> 00:36:31,720

I don't think I need a meter for this one.

630

00:36:31,720 --> 00:36:36,480

In a sudden burst of free energy, the Bidini machine runs down.

631

00:36:36,480 --> 00:36:38,240

Sounds like my grandfather.

632

00:36:38,240 --> 00:36:40,040

Oh, getting sick.

633

00:36:40,040 --> 00:36:44,200

It's draining more from the battery on each cycle than it's putting back in when it recharges.

634

00:36:44,200 --> 00:36:47,720

That's the one big problem with perpetual motion machines.

635

00:36:47,720 --> 00:36:49,540

They're not perpetual.

636

00:36:49,540 --> 00:36:51,100

Over-unity, huh?

637

00:36:51,100 --> 00:36:54,040

That's an efficiency of over 100%.

638

00:36:54,040 --> 00:36:57,320

Kind of makes you feel all warm and fuzzy inside, don't it?

639

00:36:57,320 --> 00:37:01,600

If you mean it makes me feel like I feel about the Easter Bunny or Santa Claus, yeah.

640

00:37:01,600 --> 00:37:07,320

That kind of warm and fuzzy, because it's a fantasy.

641

00:37:07,320 --> 00:37:12,440

The fortunes of free energy are now riding on the reglue temperature wheel.

642

00:37:12,440 --> 00:37:16,880

If it comes unstuck, Adam's dreams of glory bite the dust.

643

00:37:16,880 --> 00:37:19,560

But nothing is leaking today.

644

00:37:19,560 --> 00:37:21,000

Everything is good.

645

00:37:21,000 --> 00:37:25,920

The temperature wheel stands in a tank of water, which will be heated by studio lights

646

00:37:25,920 --> 00:37:28,200

in place of the sun.

647

00:37:28,200 --> 00:37:30,880

Jamie's baffle by Adam's creation.

648

00:37:30,880 --> 00:37:33,040

I don't know what to think of this contraption.

649

00:37:33,040 --> 00:37:36,800

I think, in theory, it actually ought to work, as I understand it.

650

00:37:36,800 --> 00:37:42,560

But, you know, actually come to think of it, I'm not really sure that I do understand it.

651

00:37:42,560 --> 00:37:48,360

The idea behind the Minto wheel is that these tanks are arranged in pairs, each one connected

652

00:37:48,360 --> 00:37:51,120

to its neighbor opposite the wheel.

653

00:37:51,120 --> 00:37:53,200

And there's some propane in here.

654

00:37:53,200 --> 00:37:56,120

Propane is a terrific natural refrigerant and a coolant.

655

00:37:56,120 --> 00:37:58,600

It's got a boiling point that's below room temperature.

656

00:37:58,640 --> 00:38:00,240

So there's some propane in here.

657

00:38:00,240 --> 00:38:05,200

And when we heat it up with the water, it bubbles up into this tank, making it heavier.

658

00:38:05,200 --> 00:38:10,680

And as each one successively does that and gets heavier, the wheel starts turning.

659

00:38:10,680 --> 00:38:11,880

This is the idea.

660

00:38:11,880 --> 00:38:15,120

We'll see if it actually works.

661

00:38:15,120 --> 00:38:23,120

And before your very eyes, free energy is revealed to be as elusive as ever.

662

00:38:23,120 --> 00:38:30,240

I'm not getting satisfactory operation out of my wheel here.

663

00:38:30,240 --> 00:38:32,240

Come on!

664

00:38:32,240 --> 00:38:33,240

Not happening.

665

00:38:33,240 --> 00:38:39,160

I think, I think I need to abandon the water because I think the propane tanks going through

666

00:38:39,160 --> 00:38:40,920

the water isn't working.

667

00:38:40,920 --> 00:38:46,160

The guys decide to change tactics and heat the tanks directly with the lights.

668

00:38:46,160 --> 00:38:48,880

So it starts to move.

669

00:38:48,880 --> 00:38:50,880

Adam just can't keep his hands off.

670

00:38:50,880 --> 00:38:51,880

No.

671

00:38:51,880 --> 00:38:53,360

I know, I know.

672

00:38:53,360 --> 00:38:55,120

I'm impatient.

673

00:38:55,120 --> 00:38:56,120

We know this.

674

00:38:56,120 --> 00:38:59,120

I don't want it to get too hot.

675

00:38:59,120 --> 00:39:01,400

Oh, I'm seeing something.

676

00:39:01,400 --> 00:39:02,400

Is it moving?

677

00:39:02,400 --> 00:39:05,880

What do you think?

678

00:39:05,880 --> 00:39:10,160

Trying to determine whether, I think I'm seeing it move really slowly.

679

00:39:10,160 --> 00:39:11,560

It's going this way.

680

00:39:11,560 --> 00:39:15,880

With all the speed of continental drift, the wheel is turning.

681

00:39:15,880 --> 00:39:16,880

I get a full revolution.

682

00:39:16,880 --> 00:39:18,880

I call this a solar generator.

683

00:39:18,880 --> 00:39:19,880

I don't care.

684

00:39:19,880 --> 00:39:21,880

How slow it goes.

685

00:39:21,880 --> 00:39:22,880

Come on.

686

00:39:22,880 --> 00:39:25,880

It's breaking free.

687

00:39:25,880 --> 00:39:31,040

It's breaking free of the bonds of the energy conglomerates.

688

00:39:31,040 --> 00:39:32,040

It's just slow.

689

00:39:32,040 --> 00:39:33,680

You know, it's silly.

690

00:39:33,680 --> 00:39:36,520

We're now working on almost three quarters of a full revolution.

691

00:39:36,520 --> 00:39:41,600

It is the slowest machine I've ever seen go, but it is going and it's working on thermal

692

00:39:41,600 --> 00:39:42,600

energy.

693

00:39:42,600 --> 00:39:45,840

I don't think this is the kind of thing that's going to end up powering a generator at your

694

00:39:45,840 --> 00:39:46,840

house.

695

00:39:46,840 --> 00:39:51,760

I mean, the fastest machine that anyone's built from this, and I know I'll be corrected

696

00:39:51,760 --> 00:39:56,720

on this, but that I could research, the fastest machine yet built was like one revolution

697

00:39:56,720 --> 00:39:57,720

per minute.

698

00:39:57,720 --> 00:40:02,120

I mean, that's not a blistering energy producing speed.

699

00:40:02,120 --> 00:40:05,280

You know, maybe you could, I don't know what you could do.

700

00:40:05,280 --> 00:40:08,440

You know, fan your sheep or something at that speed.

701

00:40:08,440 --> 00:40:14,520

A solar sheep fan is hardly a revolution in power generation, and it's not even free

702

00:40:14,520 --> 00:40:15,520

energy.

703

00:40:15,520 --> 00:40:21,440

Strictly speaking, the temperature wheel is just an overly elaborate and highly inefficient

704

00:40:21,440 --> 00:40:23,760

solar generator.

705

00:40:23,760 --> 00:40:26,200

Free energy, hot air.

706

00:40:26,200 --> 00:40:28,840

So free energy across the board busted.

707

00:40:28,840 --> 00:40:31,800

Yeah, they're totally and absolutely busted.

708

00:40:31,800 --> 00:40:35,560

You know, it just frustrates the heck out of me going through these plans.

709

00:40:35,560 --> 00:40:36,840

They're so confusing.

710

00:40:36,840 --> 00:40:43,360

They're so difficult to actually follow because they're mixing actual science with a lot of

711

00:40:43,360 --> 00:40:44,360

crap.

712

00:40:44,360 --> 00:40:49,360

Nevertheless, we were able to do it with a reasonable number of tests, and I'd say it's

713

00:40:49,360 --> 00:40:59,640

busted, busted, busted, and I don't want to get an email about it.

714

00:40:59,640 --> 00:41:04,440

Back at the myth of the killer ceiling fan, the ballistics gel head together with pig

715

00:41:04,440 --> 00:41:12,920

spine, human cranium, and latex arteries and skin is strapped onto the scissor jet.

716

00:41:12,920 --> 00:41:16,040

Fans never modeled for such a realistic dummy.

717

00:41:16,040 --> 00:41:21,920

The older, wiser heads decide to test out the rig and find it comes up short.

718

00:41:21,920 --> 00:41:22,920

No!

719

00:41:22,920 --> 00:41:27,560

Who measured this thing?

720

00:41:27,560 --> 00:41:28,560

That would have sucked.

721

00:41:28,560 --> 00:41:30,600

Adam can't believe his eyes.

722

00:41:30,600 --> 00:41:31,760

Where do you want it to hit?

723

00:41:31,760 --> 00:41:33,840

About like there?

724

00:41:33,840 --> 00:41:37,760

For one thought, nobody would have built this whole rig without double-checking where the

725

00:41:37,760 --> 00:41:39,160

head's going to fall on the fan.

726

00:41:39,160 --> 00:41:41,480

I mean, who would do that?

727

00:41:42,480 --> 00:41:44,600

Apparently they would do that.

728

00:41:44,600 --> 00:41:47,440

This is the first thing Jamie or I would have thought.

729

00:41:47,440 --> 00:41:48,440

But yeah, it's okay.

730

00:41:48,440 --> 00:41:49,440

You know, they're learning.

731

00:41:49,440 --> 00:41:50,440

They're good kids.

732

00:41:50,440 --> 00:41:52,440

Put the box right on there and be ready.

733

00:41:52,440 --> 00:41:54,640

A sheepish Tory raises the head.

734

00:41:54,640 --> 00:41:55,640

I don't know who measured that.

735

00:41:55,640 --> 00:41:58,640

I'm going to really give it to him.

736

00:41:58,640 --> 00:42:00,640

Yeah, why don't you give it to him when you find out?

737

00:42:00,640 --> 00:42:01,640

When I find out.

738

00:42:01,640 --> 00:42:02,640

All right, going to steal the chamber.

739

00:42:02,640 --> 00:42:08,240

The fan spins up to top speed, which they calculate to be 26 miles per hour using a

740

00:42:08,240 --> 00:42:09,240

tachometer.

741

00:42:09,240 --> 00:42:15,200

At last, the head is in place for myth number one, jumping up into a household fan from

742

00:42:15,200 --> 00:42:16,200

below.

743

00:42:16,200 --> 00:42:17,880

Don't try this at home.

744

00:42:17,880 --> 00:42:18,880

Everybody ready?

745

00:42:18,880 --> 00:42:19,880

Ready.

746

00:42:19,880 --> 00:42:20,880

Ready?

747

00:42:20,880 --> 00:42:21,880

Ready?

748

00:42:21,880 --> 00:42:24,880

5, 4, 3, 2, 1.

749

00:42:24,880 --> 00:42:25,880

Oh!

750

00:42:25,880 --> 00:42:26,880

Oh!

751

00:42:26,880 --> 00:42:31,120

The head is rocked, but it doesn't roll.

752

00:42:31,120 --> 00:42:32,920

It really didn't have much of an impact.

753

00:42:32,920 --> 00:42:34,320

It didn't cut through the ballistics gel.

754

00:42:34,320 --> 00:42:36,320

It didn't crack the skull open.

755

00:42:36,320 --> 00:42:41,760

That actually surprises me because this stuff is not quite as tough as muscle, but it certainly

756

00:42:41,760 --> 00:42:44,080

held together for this.

757

00:42:44,080 --> 00:42:49,640

The household fan spins too fast for the head to reach neck level, but too slow to do any

758

00:42:49,640 --> 00:42:52,400

real damage.

759

00:42:52,400 --> 00:42:57,800

The dummy takes the blows on the top of the head and the blades just bounce right off.

760

00:42:57,800 --> 00:43:00,480

Myth number one is busted.

761

00:43:00,480 --> 00:43:03,200

Time for myth number two, the lover's leap.

762

00:43:03,560 --> 00:43:05,600

Everybody ready for this experiment here?

763

00:43:05,600 --> 00:43:09,200

We're going to push this head straight in at the fan right at the neck level.

764

00:43:09,200 --> 00:43:11,320

We got this track set up.

765

00:43:11,320 --> 00:43:15,960

We got a rope around this pulley going out to the wall to our control panel.

766

00:43:15,960 --> 00:43:20,560

And we're just going to pull the rope, sending this guy straight into the fan.

767

00:43:20,560 --> 00:43:23,560

5, 4, 3, 2, 1.

768

00:43:23,560 --> 00:43:24,560

Oh!

769

00:43:24,560 --> 00:43:25,560

Oh!

770

00:43:25,560 --> 00:43:30,240

That's the last we saw of that ceiling.

771

00:43:30,240 --> 00:43:32,160

Broke the fan.

772

00:43:32,160 --> 00:43:34,400

There's no damage on the neck whatsoever.

773

00:43:34,400 --> 00:43:35,400

Not even a hickey?

774

00:43:35,400 --> 00:43:36,680

Nothing.

775

00:43:36,680 --> 00:43:40,640

This time the dummy gets a sore throat, but kept its head.

776

00:43:40,640 --> 00:43:44,680

When it comes to a household fan, both myths are busted.

777

00:43:44,680 --> 00:43:46,880

It's time to step things up a gear.

778

00:43:46,880 --> 00:43:48,880

Bring on the industrial fan.

779

00:43:48,880 --> 00:43:49,880

Wow!

780

00:43:49,880 --> 00:43:51,880

It's like a little tornado down here.

781

00:43:51,880 --> 00:43:52,880

A lot more power.

782

00:43:52,880 --> 00:43:55,360

That's why we want to get this one.

783

00:43:55,360 --> 00:43:56,360

It's like a little tornado.

784

00:43:56,360 --> 00:44:01,280

The blades are like little knives and it goes so much faster than the regular fan.

785

00:44:02,280 --> 00:44:08,000

In fact, it goes 54 miles per hour, twice as fast as the household fan.

786

00:44:08,000 --> 00:44:09,920

Will this one prove deadly?

787

00:44:09,920 --> 00:44:13,480

Once again, they test the jumping up from below myth first.

788

00:44:13,480 --> 00:44:15,480

2, 1.

789

00:44:15,480 --> 00:44:16,480

Oh!

790

00:44:16,480 --> 00:44:17,480

Chunks!

791

00:44:17,480 --> 00:44:18,480

Yes!

792

00:44:18,480 --> 00:44:21,480

Oh, that did some damage.

793

00:44:21,480 --> 00:44:27,480

It's got to be at least a concussion.

794

00:44:27,480 --> 00:44:28,680

At least a concussion.

795

00:44:28,680 --> 00:44:30,480

Maybe a fracture.

796

00:44:30,480 --> 00:44:32,480

And certainly a bloody nose.

797

00:44:32,480 --> 00:44:37,480

This time the dummy really takes a hit from the high speed metal blades.

798

00:44:37,480 --> 00:44:40,680

He got, oh look, look, he cracked into his skull.

799

00:44:40,680 --> 00:44:42,360

A little fracture.

800

00:44:42,360 --> 00:44:43,360

That's skull.

801

00:44:43,360 --> 00:44:45,480

And it definitely made a mark in the skull.

802

00:44:45,480 --> 00:44:46,480

Yeah, I agree.

803

00:44:46,480 --> 00:44:50,080

I mean, it might not kill you, but you wouldn't want to have this happen to you.

804

00:44:50,080 --> 00:44:51,920

No kidding.

805

00:44:51,920 --> 00:44:56,880

Jumping up into an industrial fan is a bad idea, period.

806

00:44:56,880 --> 00:44:57,880

Next in line.

807

00:44:57,880 --> 00:44:58,880

The big one.

808

00:44:58,880 --> 00:45:01,880

If you want to get a little bit of a run to your hats, we're going neck first.

809

00:45:01,880 --> 00:45:06,880

5, 4, 3, 2, 1.

810

00:45:06,880 --> 00:45:08,880

Oh, a juggler!

811

00:45:08,880 --> 00:45:09,880

Oh!

812

00:45:09,880 --> 00:45:10,880

Woo!

813

00:45:10,880 --> 00:45:12,880

He splattered the walls with one.

814

00:45:12,880 --> 00:45:13,880

Yeah!

815

00:45:13,880 --> 00:45:15,880

All right, I want to see the high speed.

816

00:45:15,880 --> 00:45:18,880

Oh, that was some good horror movie stuff.

817

00:45:18,880 --> 00:45:21,880

The team's special effects expertise is paying dividends.

818

00:45:21,880 --> 00:45:23,880

Oh, look at that!

819

00:45:23,880 --> 00:45:24,880

Look at that!

820

00:45:24,880 --> 00:45:25,880

Nice!

821

00:45:25,880 --> 00:45:26,880

Crack!

822

00:45:26,880 --> 00:45:28,880

You don't really want to see this one, do you?

823

00:45:28,880 --> 00:45:29,880

Look at the blood!

824

00:45:29,880 --> 00:45:30,880

Oh my god!

825

00:45:30,880 --> 00:45:31,880

Really?

826

00:45:31,880 --> 00:45:32,880

So brutal.

827

00:45:32,880 --> 00:45:36,880

It not only sliced his artery, it went in for a second round and just...

828

00:45:36,880 --> 00:45:37,880

Bleh!

829

00:45:37,880 --> 00:45:38,880

Chop the extra.

830

00:45:38,880 --> 00:45:39,880

Oh, go on.

831

00:45:39,880 --> 00:45:49,880

The fan actually sliced through his neck, through the juggler, and even into the vertebrae.

832

00:45:49,880 --> 00:45:51,880

I mean, that says deadly to me.

833

00:45:51,880 --> 00:45:53,880

Deadly, but not decapitation.

834

00:45:53,880 --> 00:45:55,880

Myth still busts.

835

00:45:55,880 --> 00:45:58,880

This is the most powerful fan you can buy.

836

00:45:58,880 --> 00:46:03,880

And obviously it wasn't enough power, so now we have to create our own fan.

837

00:46:03,880 --> 00:46:07,880

And I think we're going to start with a lawn mower.

838

00:46:07,880 --> 00:46:11,880

This dummy's head is coming off.

839

00:46:11,880 --> 00:46:17,880

The plan is to suspend a lawn mower engine from the ceiling, attach large razor sharp blades,

840

00:46:17,880 --> 00:46:19,880

and let it rip.

841

00:46:19,880 --> 00:46:24,880

Scotty fashions the blades from sheet metal, and there's no room for error.

842

00:46:24,880 --> 00:46:30,880

Right now I'm using the edge finder and the digital readout to find the exact center of

843

00:46:30,880 --> 00:46:35,880

our blades, which is very important because if we don't get this thing centered, it's

844

00:46:35,880 --> 00:46:43,880

very likely that it will blow apart and go sending blades flying into the wall, possibly

845

00:46:43,880 --> 00:46:45,880

through the wall where we're standing.

846

00:46:45,880 --> 00:46:52,880

While Scotty finds dead center, Tori rigs up the housing for the lawn mower engine.

847

00:46:52,880 --> 00:46:55,880

Scotty adds the final deadly touch.

848

00:46:55,880 --> 00:46:58,880

This should be a real close shave.

849

00:46:58,880 --> 00:47:00,880

Oh yes, nice and sharp.

850

00:47:00,880 --> 00:47:03,880

I think his head's going to fly right off.

851

00:47:03,880 --> 00:47:05,880

The homemade blades are attached.

852

00:47:05,880 --> 00:47:07,880

That looks so good.

853

00:47:07,880 --> 00:47:10,880

Then a finishing touch from a team player.

854

00:47:10,880 --> 00:47:12,880

So I'm going to make the ultimate sacrifice here.

855

00:47:12,880 --> 00:47:18,880

As long as you're going to do it with me, let's make sure everyone knows who it is.

856

00:47:18,880 --> 00:47:21,880

There we go.

857

00:47:21,880 --> 00:47:26,880

All right, you'll have to tell me how it turns out because I can't see a damn thing.

858

00:47:26,880 --> 00:47:32,880

Judging by the Coke bottles on this thing, he can't see a thing either.

859

00:47:32,880 --> 00:47:35,880

Tori starts up the fan with the heavy blades.

860

00:47:35,880 --> 00:47:38,880

It takes some turning over.

861

00:47:38,880 --> 00:47:40,880

It's getting faster.

862

00:47:40,880 --> 00:47:41,880

It looks pretty deadly.

863

00:47:41,880 --> 00:47:43,880

It does and pretty balanced.

864

00:47:43,880 --> 00:47:44,880

Nice work.

865

00:47:44,880 --> 00:47:45,880

You guys ready?

866

00:47:45,880 --> 00:47:49,880

And three, two, one.

867

00:47:50,880 --> 00:47:52,880

Oh my God.

868

00:47:52,880 --> 00:47:54,880

Oh my God, look at it.

869

00:47:54,880 --> 00:47:56,880

That is horrifying.

870

00:47:56,880 --> 00:48:00,880

Brace yourselves for a slice of slow mo.

871

00:48:00,880 --> 00:48:03,880

Oh dude, it's just going right through.

872

00:48:03,880 --> 00:48:04,880

Wow.

873

00:48:04,880 --> 00:48:06,880

It's a horror show in there.

874

00:48:06,880 --> 00:48:08,880

Oh, and now it's just carving it up.

875

00:48:08,880 --> 00:48:11,880

Look, glasses hovering in the air.

876

00:48:11,880 --> 00:48:13,880

Wait, here they go.

877

00:48:13,880 --> 00:48:14,880

Here they go.

878

00:48:14,880 --> 00:48:19,880

I hope you didn't even add an extra pair.

879

00:48:19,880 --> 00:48:21,880

Oh, that is so great.

880

00:48:21,880 --> 00:48:25,880

This head is dead, but the spine is still intact.

881

00:48:25,880 --> 00:48:28,880

It didn't decapitate him, but it's definitely a deadly blow.

882

00:48:28,880 --> 00:48:32,880

Scotty and Tori, this one goes into the Mythbusters Hall of Fame.

883

00:48:32,880 --> 00:48:37,880

I mean, this is perhaps one of the most upsettingly lethal things you guys have ever built.

884

00:48:37,880 --> 00:48:38,880

But still no head.

885

00:48:38,880 --> 00:48:41,880

I can't believe how hard it is to chop a head off.

886

00:48:41,880 --> 00:48:44,880

It is apparently very difficult to chop a head off.

887

00:48:44,880 --> 00:48:48,880

This injury that this thing inflicted was definitely lethal,

888

00:48:48,880 --> 00:48:50,880

but it still didn't behead our dummy.

889

00:48:50,880 --> 00:48:52,880

I mean, I think that's busted.

890

00:48:52,880 --> 00:48:53,880

That is busted.

891

00:48:53,880 --> 00:48:54,880

Unfortunately.

892

00:49:11,880 --> 00:49:16,880

Thanks for watching.